

1 cetera -- go off the air." And then it says, the next line
2 says, "This resulted in no improvement in the TV picture."

3 A Yes.

4 Q Doesn't that sort of conflict with, with --

5 A What I was trying to say there, obviously not very
6 clear, was that we ran tests earlier with just taking KOKS off
7 the air, and noted any changes there.

8 Q Um-hum.

9 A Then, because there was some indications from the
10 complainants that it may be -- it didn't clear up as good as
11 they thought it would, so they said maybe it's also partly
12 responsible to some of the other stations in town, such as
13 KCLR. So we came back and said, "All right, we'll turn off
14 KCLR, and KOKS." And we also turned off one other station in
15 town, I believe. There was a low-power TV station that's on
16 the Channel 15 tower. I believe I noted that toward the
17 front.

18 JUDGE STIRMER: Yes, you did.

19 WITNESS: What we did is -- what I was trying to say
20 there is when we turned these additional stations off, there
21 was no difference from when we just turned KOKS, KOKS off.

22 BY MR. DUNNE:

23 Q Okay. Now, now you testified that the lead in to that
24 was when they turned KOKS off, it was something about the, the
25 complainants were disappointed it wasn't as dramatic a change

1 as they expected.

2 A Correct.

3 Q And I guess you're referring to, to the fairly slight
4 difference in the sets that you just referenced earlier --

5 A Yes.

6 Q -- with respect to Mrs. Smith. Which complainants,
7 specifically, do you recall "being disappointed"?

8 A I know Mrs. Smith was disappointed, and I believe
9 Mrs. Hillis was disappointed. I do not recall if any of the
10 others were, but I do know those two had indicated that.

11 Q Okay. I know that you said that the, the Magnavox
12 television had difficulty tuning in some of the channels.

13 A Yes.

14 Q I'm still on page 29 --

15 A Yes.

16 Q -- just the sentence below that, Mr. Ramage.

17 A Yes.

18 Q Okay, and I believe you testified earlier that this is
19 a -- specifically Channel 8, there was some difficulty tuning
20 in Channel 8?

21 A That's what I seem to recall, that Channel 8 --

22 Q Okay, and this is just to the best of your recollec-
23 tion.

24 A Yes.

25 Q Were there any other channels that there were diffi-

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1 | culties tuning to that you recall now?

2 | A I, I don't recall. There may have been, but I do know
3 | there was -- it didn't affect all of them that we were trying
4 | to look at. We were looking at, I think, four stations, and
5 | so it may have affected more than Channel 8, but it did not
6 | affect all four with the tuning.

7 | Q Now, Mr. Ramage, is it theoretically possible, and
8 | again this is a, you know, if, if you know sort of situation,
9 | that if there is an improperly maintained antenna or an
10 | improperly maintained tuner on a television set, that that
11 | will have some impact on TV reception in a high RF field?

12 | A It can have impact on TV reception in any situation.

13 | Q Okay, well --

14 | A Including high RF.

15 | Q -- I'm going specifically that if KOKS were on the air
16 | versus when it was off the air, if it were on the air could an
17 | improperly tuned tuner, or an improperly maintained antenna,
18 | create, because it's in a higher RF field, create what appears
19 | to be some difference in picture on a television set?

20 | A I do not know.

21 | Q Okay, one other thing, Mr. Ramage, before we leave
22 | Mrs. Smith. The television reception when KOKS was off the
23 | air, I note there, Channel 6 means what? TASO's -- those are
24 | TASO ratings, is that correct?

25 | A Correct.

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1 Q So when KOKS went off the air on the first TV set,
2 which was assuming there was no -- there's -- there was no --
3 viewable picture at all --

4 A That's correct.

5 Q -- essentially?

6 A Yeah.

7 Q And if you go to the Magnavox, the second set, with
8 KOKS again off the air, there was essentially -- what's a TASO
9 5? What did you see in the house?

10 A There would have been some improvement or some picture,
11 viewable picture there, versus before there was none at all.

12 Q Okay, would that have been a viewable picture, a TASO
13 5? Would people sit around and watch a TASO 5?

14 A Yes.

15 Q They would watch a TASO 5?

16 A I, I have seen people that have watched TASO --

17 Q All right, and I noticed with TV Number 3 it doesn't
18 make any difference, Channel 6 is out whether you've got KOKS
19 on or off, is that correct?

20 A Correct.

21 Q Okay, and let's go to the Hillises, which is on page --
22 which are on page 31.

23 A All right.

24 Q Okay, and I think you just, I think you just testified
25 that Mrs. Hillis was among the people who were disappointed

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1 | when there didn't seem to be a very dramatic difference with
2 | KOKS being on the air, is that correct?

3 | A Correct.

4 | Q Now, once again, the, the, the grade of difference
5 | between a TASO 5 and a TASO 4 as shown on the TV Number 1 is
6 | not a very dramatic change, is it, Mr. --

7 | A No.

8 | Q Okay, and the same would be between a TASO 6 and a TASO
9 | 5 on the next TV.

10 | A Correct.

11 | Q Once again, when you viewed TV Number 1 and TV Number 2
12 | on Channel -- well, let's take Channel 6, 8, 12, 15 -- did --
13 | when you were in the house, did you observe the characteristic
14 | herringbone effect that results from overload interference?

15 | A I don't believe I did.

16 | Q All right. Once again, why don't we ask that question.
17 | You've already answered it. If -- could a difference -- let
18 | me ask you a theoretical thing. Could a difference in recep-
19 | tion be caused by the construction -- by the bouncing of the
20 | KOKS signal off another, another metal object close to the
21 | Hillis home?

22 | A I didn't notice ghosting, so I, I would say no.

23 | Q Now, the Hillises -- strike that. The, the Smith's
24 | live down the, down the hill from Highway 67 next to the, the
25 | Stewarts, is that correct, as your recollection?

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1 A Yes, they -- the Stewarts and the Smiths live, basi-
2 cally, right on the opposite sides of the antenna from one
3 another.

4 Q Okay, and do you recall if there -- now, without
5 referring you to -- back to you, but I believe your testimony
6 either earlier today or yesterday was that Mr. Moffitt told
7 you that there was some doubt that when KOKS went off the air,
8 that certain people had certain doubts about the KOKS being
9 off the air.

10 A Yes.

11 Q Okay, and didn't he -- didn't his report mention -- I
12 can refer back to you if you like -- that the Hillises had a
13 stereo set that the light remained on --

14 A Yes.

15 Q -- and they thought that that was -- you know, the
16 station was on because the stereo light was on?

17 A Yes.

18 Q Okay, Mr., Mr. Raines report made reference to that, is
19 that correct?

20 A Mr. Moffitt's report, yeah.

21 Q Mr. Moffitt's report.

22 A I, I believe it did.

23 Q Okay, and did he -- they -- 2 years later or 3 years
24 later, Mrs. Hillis still is thinking the station's on the air
25 because her stereo set is on there?

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1 A Yes.

2 Q I noticed that the measured field strength at, at the
3 Hillises' and the Smith's is exactly the same, is that cor-
4 rect, 1750?

5 A Yes. What we did since they're basically right across
6 the street from one another is we just used the same reading
7 we had, which we took right there at that same location. I
8 believe that's what we did, we just used the same strength
9 reading we'd used at the front of the -- yeah, on page 16.
10 Since that was in the same location, basically, as the Smiths
11 and Hillises, we just used that reading.

12 Q Okay, would you take -- is that the strongest signal
13 at -- of any home, if, if you know?

14 A I believe it was, yes.

15 Q Um-hum, and that, that is a fairly strong signal, is it
16 not?

17 A Yes.

18 Q And, and I'd like you -- let's just go quickly, if we
19 can, to, to Mrs. Diel, or is that Diel?

20 A I believe it's Diel.

21 Q Okay. Now, once again, Mr. Ramage, the report speaks
22 for itself that the differences in the TASO readings between
23 KOKS on and off are pretty close with respect to Mrs. Diel, is
24 that correct?

25 A Yes.

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1 Q Okay, as a matter of fact, they're exactly the same
2 with respect to everyone except TV 1, Channel 15, on and off.
3 One says "5" and one says "4," is that correct?

4 A Correct.

5 Q Okay, so given the fact that that's a fairly minor
6 difference -- that is a fairly minor difference, is it not?

7 A That's correct.

8 Q Did -- when KOKS was on and operating in Mrs. Diel's
9 home --

10 A Um-hum.

11 Q -- did you, on any channel, observe what you described
12 as the characteristic overload interference characteristic of
13 the herringbone lines?

14 A Not that I recall.

15 Q Okay, so when you, when you say that, at the bottom of
16 your summary up there on page 33, that "KOKS failed to restore
17 quality picture reception at time complaint was filed," that's
18 based on what Mrs. Diel told you, is that correct?

19 A It's based on what Mrs. Diel told me, plus since the
20 time the complaint was filed, they have installed coax and,
21 and a new antenna, a different antenna from what they had
22 before, and any time coax is used instead of twin-lead wire --

23 Q Um-hum.

24 A -- you have more loss reaching, reaching the set, more
25 signal loss from the antenna, and what I had been finding in

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1 all of these reports, including Mrs. Diel, is that the ones
2 that had these, the coax, now installed, all of them had
3 apparently lost signal that they, they didn't have -- that
4 they had before. It's, it's like a one -- you were talking
5 about DB.

6 Q Um-hum.

7 A Coax has a 3 DB loss for a given length of cable versus
8 only 1 DB loss for a twin lead, so by adding the coax, there
9 was more loss in the line getting to the TV set. There was
10 less TV picture getting to the TV set than the same setup with
11 twin-lead wire, and so I had based that on that, also. But
12 mainly, yes, it was --

13 Q Okay, let me ask you, let me ask you a question that's
14 perhaps out of order, but certainly pertinent. If --
15 Channel 6 is a signal that is weak in Poplar Bluff, is it not?

16 A Correct.

17 Q Okay, if you are in a field in which there is a weak
18 signal, is there any way that the station can provide filter-
19 ing, or coax, or whatever, that gets Channel 6 but doesn't --
20 somehow doesn't degrade the signal in some way from what it
21 was before?

22 A What -- whenever you switch from -- to coax and have a
23 loss, and every time you add a filter you add more loss, you
24 have to make up that loss somehow, whether a better higher
25 gain antenna, or some kind of amplifier to provide a stronger

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1 | signal to make up for the loss, or -- if you do nothing but
2 | switch and make coax -- switch twin lead to coax and add
3 | filters, you're going to lose a lot of signal, especially on
4 | the weak signal situations, that will be noticeable.

5 | Q Okay, so the, the answer to your question is, you know,
6 | what can a -- what can you do? The thing is to buy different
7 | antennas, or --

8 | A You have to somehow provide gain to make up for the
9 | losses you're adding to the system.

10 | Q How does one normally do that, Mr. Ramage?

11 | A Usually it's by a higher gain antenna, or by a booster
12 | amplifier.

13 | Q Now a booster amplifier, though, actually increases the
14 | signal that you receive and therefore -- you know, you have
15 | problems with Channel 6, wouldn't that increase the inter-
16 | ference with Channel 6? And then you'd have to put on another
17 | filter to filter out any increase in interference of
18 | Channel 6?

19 | A Typically, you would filter whatever station you're
20 | trying to reject out, or, or suppress out, before the booster,
21 | and then boost up the signal, and then also filter after that,
22 | and typically that, that's the setup most used on weak signals
23 | like that.

24 | (Pause.)

25 | Q Mr. Ramage, I'd like to refer you, if I could, to

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1 page 41. It talks about your visit to the Kearby's?

2 A Okay.

3 Q Okay, it, it appears there that there's absolutely no
4 difference between when KOKS is operating and when it isn't
5 operating, is that true?

6 A That's true.

7 Q And that the Kearby's installed the -- their filter
8 that KOKS previously installed at their other address?

9 A Yes.

10 Q Do you know if they lived in the blanketing contour
11 prior to the time they moved to this address?

12 A They stated that they did, and -- well, yeah, they
13 stated that they did live in -- within the contour before they
14 moved.

15 Q Okay. So, you know, once again, when you say there was
16 a, there was a difference of quality, you essentially basing
17 that on, on the reports of Mr. and Mrs. Kearby, is that cor-
18 rect, what they told you? When you, you say that there was a
19 failure to resort the quality of the TV reception at that time
20 the complaint was filed, once again, you're basing that on,
21 more or less, on what the Kearby's told you.

22 A Correct.

23 Q Okay, I'd like to refer you, if I may, to page 45 of
24 your report, Mr. Ramage?

25 A All right.

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1 Q Okay, I notice that at that reception, that -- excuse
2 me, at that location, the signal strength is 2150 millivolts
3 per meter. I don't recall anyone being higher. Where is
4 Mrs. Freeman's house located, as you recall?

5 A She would be in the direction the antenna was pointing
6 on the side of the tower, so she would be in what would prob-
7 ably be considered the main lobe of the antenna.

8 Q Okay, I noticed you mentioned that one of the, one of
9 the -- which TV had the booster on it?

10 A The Magnavox, TV 2.

11 Q Now, what -- you noticed that the -- you mentioned at
12 the time, that time, that the occupant's twin lead had broken
13 loose from the directional antenna?

14 A Yes.

15 Q Okay. Was that repaired prior to the time you took
16 these readings, before and after KOKS?

17 A No.

18 Q Wouldn't a non-installed antenna wire have something to
19 do with the, the observed interference?

20 A With the interference, no, I don't believe it would
21 have anything to do with the interference, but it would have
22 something to do with, with the poor picture quality she was
23 receiving.

24 Q Okay. Let's go back if we, we could to page 39 of your
25 report concerning Mrs., Mrs. Libla, and I would ask you the

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1 questions I asked with respect to some of the other folks
2 here. When you reviewed the, the station's picture with KOKS
3 off the air, did you view on any of the channels the
4 characteristic overload interference characteristic, the
5 herringbone pattern?

6 A No.

7 Q If I would ask you the same question with respect to
8 Mrs. -- Mr. and Mrs. Kearby, would your answer be the same?

9 A Yes.

10 Q If I were to ask you the same question with respect to
11 Mrs. Gray, would your answer be the same?

12 A Yes.

13 Q Okay, page 43.

14 JUDGE STIRMER: During your inspection, Mr. Ramage, did
15 you encounter any KOKS audio on the television --

16 WITNESS: Yes.

17 JUDGE STIRMER: -- signals?

18 WITNESS: Yes.

19 JUDGE STIRMER: At which home? Is that noted in your
20 report?

21 WITNESS: I believe Mrs. Smith -- yeah, the very last
22 line of the notes section, right above the summary.

23 JUDGE STIRMER: All right.

24 WITNESS: Or second to last. It says, "All television
25 sets had severe audio rectification problems with KOKS on the

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1 air."

2 JUDGE STIRMER: What does that mean?

3 WITNESS: It means that -- audio rectification is where
4 the -- a strong signal like that comes directly out your TV
5 speakers without actually coming in on the antenna line.
6 It's, it's coming in directly into the TV set and you hear it
7 on your speakers.

8 JUDGE STIRMER: That's the KOKS audio?

9 WITNESS: Yes, it was the KOKS audio.

10 JUDGE STIRMER: Do you, do you recall whether any other
11 houses experienced that?

12 BY MR. DUNNE:

13 Q Mr. Ramage, if I can follow up on that, would -- might
14 that KOKS audio then coming out on a particular channel be the
15 result of, of a poor tuner?

16 A No. I can explain it if you want why I say that.

17 MR. SHOOK: I don't believe Your Honor's question was
18 ever answered.

19 MR. DUNNE: Yes.

20 WITNESS: Oh.

21 JUDGE STIRMER: I asked you whether there was any other
22 houses which had the same problem of KOKS audio coming in on
23 the television.

24 WITNESS: I don't recall. I don't recall that, if
25 there was any others.

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1 JUDGE STIRMER: Okay. Excuse me --
2 WITNESS: I'm sorry, sir.
3 JUDGE STIRMER: Okay. Excuse me, Mr. Dunne.
4 MR. DUNNE: Sure.
5 BY MR. DUNNE:
6 Q Okay, I want -- Mrs. Libla, Mrs. Kearby, Mrs. Gray.
7 Did you -- again, did you say any herringbone in Mrs. Gray's
8 TV set?
9 A Not that I recall.
10 Q Okay, do you recall hearing any KOKS audio on
11 Mrs. Gray's TV set?
12 A Not that I recall.
13 Q With respect to Mrs. Freeman, same question,
14 herringbone and audio?
15 A Same answer, not that I recall.
16 Q Okay, with respect to Mrs. Ellis?
17 A Not that I recall.
18 Q With respect to Mrs. Christian?
19 A Not that I recall.
20 Q With respect to Mr. Garrison?
21 A Not that I recall.
22 Q With respect to Mr. Crutchfield?
23 A Not that I recall.
24 JUDGE STIRMER: Why don't you ask a general question
25 about all of them.

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1 MR. DUNNE: Okay.

2 BY MR. DUNNE:

3 Q With the exception of Mrs. Smith, did you see or hear
4 any KOKS audio on any of the sets that are in your report?

5 A Not that I recall.

6 Q Were there any sets that you saw, that you observed,
7 that which you described as the characteristic overload inter-
8 ference of the herringbone pattern?

9 A Only the ones on the trailer court where I saw some
10 minimal two-way that I attributed to two-way.

11 Q Okay.

12 A That's the only ones that I recall noting that.

13 MR. DUNNE: Okay, Your Honor, I'm just about finished.
14 I'd like your indulgence for just a moment.

15 (Pause.)

16 MR. DUNNE: That's all I have for this witness,
17 Your Honor. Thank you, Mr. Ramage.

18 JUDGE STIRMER: Do you have redirect, Mr. --

19 MR. SHOOK: I do, Your Honor.

20 JUDGE STIRMER: How much?

21 MR. SHOOK: I hope I can get through it relatively
22 quickly, perhaps even less than a half hour.

23 JUDGE STIRMER: All right, why don't we break for lunch
24 at this time, then, and reconvene at a quarter to two.

25 (Whereupon, a brief recess was taken.)

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1 JUDGE STIRMER: I will note at this time that it's
2 after two o'clock. I said that we would reconvene at a quar-
3 ter to two. I've provided ample opportunity for counsel to be
4 present. I would note for the record that Mr. Dunne has not
5 returned from lunch, and I propose to proceed at this time
6 without him. Mr. Shook, would you proceed with your redirect
7 examination?

8 MR. SHOOK: Thank you, Your Honor.

9 REDIRECT EXAMINATION

10 BY MR. SHOOK:

11 Q Mr. Ramage, I would like to direct your attention to
12 page 31 of Mass Media Exhibit 1.

13 A All right.

14 Q Now, on cross-examination a question was put to you as
15 to whether or not you recalled hearing audio at any residence
16 other than the Smith residence. Do you recall that question?

17 A Yes.

18 Q And do you recall your --

19 JUDGE STIRMER: Let me note for the record that
20 Mr. Dunne has now arrived. We've just begun redirect examina-
21 tion in your absence, Mr. Dunne.

22 MR. DUNNE: Your Honor, may I make a statement for the
23 record?

24 JUDGE STIRMER: Certainly.

25 MR. DUNNE: Your Honor, I, I apologize for lateness --

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1 my lateness, Mrs., Mrs. Stewart and I were involved in an
2 automobile accident on Highway 53. The car was undrivable; a
3 police report was taken, and I apologize, Your Honor, but
4 there are only two cabs in Poplar Bluff and neither one of
5 them came. So --

6 JUDGE STIRMER: Well, I'm sorry for your unfortunate
7 accident, Mr. Dunne. We just --

8 MR. DUNNE: We were so --

9 JUDGE STIRMER: We just began. I, I waited until --

10 MR. DUNNE: I understand, Your Honor. I kind of
11 suspected that this would happen, but trust me, I, I tried to
12 get back as quickly as possible.

13 JUDGE STIRMER: Very well.

14 MR. DUNNE: We had to rely on Mr. Stewart to come and
15 pick us up and he wasn't immediately available, and the cabs
16 never came.

17 JUDGE STIRMER: You all are all right, though, physi-
18 cally?

19 MR. DUNNE: Yes, there was no injury to either
20 Mrs. Stewart or myself.

21 JUDGE STIRMER: Very well.

22 MR. DUNNE: Or anyone else, thank God.

23 BY MR. SHOOK:

24 Q All right, do you remember where we were?

25 A Yes. I do remember the question.

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1 Q All right, and do you remember your answer?

2 A I said I did not recall any at the Hillis residence,
3 but upon noting my report here I do see that audio rectifica-
4 tion was noted at the Hillis --

5 Q At the Hillises also?

6 A At the Hillises also.

7 Q All right. Now, in your report, on cross-examination
8 you noted that no mention had been made of the two-way inter-
9 ference, or what you believe to be two-way interference that
10 you observed at at least one person, and perhaps several
11 person's residences who lived close by the highway patrol. Do
12 you remember that?

13 A Yes.

14 Q And can you tell us why you did not include any
15 reference to that observed interference?

16 A Because I noted it as being from apparent two-way
17 interference sources because it would come and go in the same
18 pattern as someone talking, and so I dismissed it as being
19 from, probably from, the highway patrol, and it was not the
20 sole interference that I had noted on the, the reception.

21 Q All right. Now, during cross-examination, it was
22 brought out that at one, at one investigation prior to the one
23 you did for Poplar Bluff, you were, you were called upon to
24 make some -- make an investigation relative to blanketing
25 interference in a place called Humboldt, Humboldt, Iowa. Do

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1 | you remember that?

2 | A Yes.

3 | Q Now, can you describe the procedure that you used to
4 | determine whether or not there was blanketing interference at
5 | that Humboldt, Iowa location?

6 | A I --

7 | MR. DUNNE: Objection, Your Honor. What relevance does
8 | that have to anything? The witness testified it was
9 | radio-to-radio interference.

10 | JUDGE STIRMER: You questioned him about this. This is
11 | proper redirect. Overruled.

12 | WITNESS: I -- it's been several years ago. I don't
13 | have very many recollections. I do recall looking at differ-
14 | ent radios in people's residences in Humboldt, Iowa, and
15 | trying to determine whether or not they could, they could
16 | separate out the offending station from the station they were
17 | trying to receive, and tried different radios in place of the
18 | ones that they were using. I believe on/off tests were again
19 | conducted, trying to determine if that, that was the cause of
20 | the interference they were receiving.

21 | BY MR. SHOOK:

22 | Q Why were on/off tests conducted?

23 | A Because with the stations off, you can determine what
24 | that station contributed to the interference.

25 | Q And the station's contributions to interference would

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1 be blanketing interference, correct?

2 A Yes.

3 Q If that station were on.

4 A Yes.

5 Q And if the station were off, then you could say that
6 with that station off, if you observed a difference, then that
7 was because there was no more blanketing interference from the
8 offending station.

9 A Yes.

10 Q Now, I would direct your attention to page 5 of KOKS
11 Exhibit No. 6.

12 A All right.

13 Q And there are two sections in there that have tele-
14 vision channels noted and TASO numbers noted. Do you see
15 that?

16 A Yes.

17 Q And do you see that there is a difference between one
18 and the other?

19 A Yes.

20 Q With KOKS off the air, is the reason that there is a
21 difference because there is no blanketing interference from
22 KOKS when the station is off the air?

23 A This is not my report and I wasn't there, so I, I don't
24 know.

25 Q Okay. Reviewing this report, though, what would your,

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1 | what would your professional opinion be to explain the dif-
2 | ferent TASO readings?

3 | A That KOKS had contributed interference to the, the
4 | picture that they had viewed at this time.

5 | Q And then with KOKS off the air, the effects of blanket-
6 | ing interference were not present.

7 | A That's what appears from the report.

8 | Q Whereas with it on the air, if there was -- if there
9 | were different TASO readings, that would be because of KOKS
10 | blanketing interference.

11 | A Apparently so.

12 | JUDGE STIRMER: Well, now, the only different TASO
13 | reading that I can see here is with respect to Channel 8,
14 | isn't that right?

15 | WITNESS: Channel 6, also. It looks like they couldn't
16 | get anything, a totally blank screen, but with, with them off
17 | the air, they could get apparently just snow.

18 | JUDGE STIRMER: Now, look at the, look at the
19 | description --

20 | WITNESS: Yeah.

21 | JUDGE STIRMER: -- with KOKS off the air with regard to
22 | Channel 6. You have TASO 5, but no picture, extremely snowy.
23 | Is that a TASO 5 picture?

24 | WITNESS: Well, again, Mr. Moffitt didn't get to review
25 | the tapes, so --

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1 JUDGE STIRMER: Would you call "no picture, extremely
2 snowy" a TASO 5, or --

3 WITNESS: No, I'd call it a "6."

4 JUDGE STIRMER: You'd call it a "6."

5 BY MR. SHOOK:

6 Q Okay. Mr. Ramage, I would direct your attention to
7 KOKS Exhibit 6, page 7.

8 A All right.

9 Q And I would focus your attention on the television
10 channel numbers, both with KOKS on the air and KOKS off the
11 air, and do you see the differences between Channel 6 and
12 Channel 8?

13 A Yes.

14 Q Now, what would you attribute the different TASO
15 readings to?

16 A Again, it would have to be to KOKS, apparently from
17 their blanketing of this receiver.

18 Q Okay. Now, some of the, some of the questions that
19 have been put to you on cross-examination are based on the
20 premise that blanketing interference appears on the television
21 screen only if the picture is blanked out entirely or if some
22 kind of herringbone pattern exists. Is that, is that your
23 testimony as to what the only effects of blanketing interfer-
24 ence would be?

25 A No, not the only effects.

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1 Q Okay, could you describe for us all the, the effects
2 that you're aware of relative to what someone would see view-
3 ing the television screen?

4 A It's -- on weak TV signals, again we're talking about
5 very weak signals that we're looking at here on these TV sets,
6 any interference that could reduce the sensitivity of the
7 receiver can contribute interference that you will not see in
8 a -- if you were in the middle of a higher metropolitan area
9 where you're closer to the TV transmitter because you have
10 such a stronger TV signal that TV set's receiving, you
11 wouldn't see any interference like that. Because in this
12 situation we have such weak TV signals, any strong signal in
13 the area can reduce the sensitivity of the receiver, kind of
14 like a bright light comes on and your eyes tend to, to narrow
15 down even though you're still looking at something. You don't
16 have as much sensitivity, you can't see as, as far or as well.
17 And it can manifest itself in snow, things of that nature,
18 from what I've seen here at KOKS.

19 Q Now, I, I believe on cross-examination there was some
20 question put to you about whether the use of coaxial cable and
21 filters would be sufficient to restore service, and I believe
22 from your testimony -- if, if I recall correctly from your
23 testimony, you indicated that that would generally not restore
24 service. Could you explain your answer?

25 A Yes. Again we're dealing with very weak television

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1 | signals, and so the change from twin-lead to coax cable will
2 | create a greater loss of signal reaching the television set
3 | between the antenna and the television set, and then each
4 | additional item you add in-line, such as a filter, will add
5 | additional loss to the signal reaching the TV set. You
6 | have -- if -- to get the same reception you had before any
7 | changes were made, you'd have to increase your gain to
8 | compensate for all the loss you had to keep it the same.

9 | JUDGE STIRMER: So, if I understand you, Mr. Ramage, if
10 | you have a weak signal and you add an FM filter to filter out
11 | a potentially offending FM signal, you would reduce the tele-
12 | vision signal still further.

13 | WITNESS: Yes.

14 | JUDGE STIRMER: All right.

15 | BY MR. SHOOK:

16 | Q Now, what explanation, if any, do you have why in
17 | 1992 --

18 | JUDGE STIRMER: Let me interrupt you, please. So let
19 | me follow this a little more. So that by adding a, a, a TV --
20 | a, a, an FM filter to someone who has a TV set that's receiv-
21 | ing a weak signal, that might make the situation worse.

22 | WITNESS: Yes.

23 | JUDGE STIRMER: All right.

24 | BY MR. SHOOK:

25 | Q Okay. Now, you went to a number of homes where the

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